Corey Heckel

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**TECHNICAL SKILLS**

* **Programming Languages:** Javascript, Python, C#, C++, Java, R, Typescript, HTML/CSS, MATLAB, Arduino
* **DB & Query Languages:** SQL, MySQL, PostgreSQL, MongoDB, Firebase, GraphQL
* **Web Technologies:** React.js, Node.js, Flask, Express.js, Phaser, jQuery, Axios, APIs, AJAX, Angular, Sockets.io, Bootstrap, Redis, Gulp, Next.js, Vue.js, Tailwind, PeerJS, Agora
* **Data Visualization & Analysis:** Plotly, Pandas, Numpy, Dash, Three, D3, Mokka
* **Machine Learning & Computer Vision:** Neural Networks, Linear & Logistic Regression, Decision Trees, Deep Learning, K-Means Clustering, K-NN, Bayesian Learning, PyTorch,Tensorflow, OpenCV,Vuforia,Keras,Scikit-learn
* **Testing & Quality Assurance:** JUnit**,** CircleCI, Postman, PyLint, Coverage, Jira
* **Documentation:** Overleaf, LaTex, Lucidchart, UML, Requirements Analysis
* **Software & Tools:** AWS, IoT, Docker, Github, GitLab, Unity, Figma, AR, GIMP, Excel, Solidworks, Labview, Agile

**PROFESSIONAL EXPERIENCE**

**Lead Full Stack Engineer|Sonic Script** May 2023 - Present

* Facilitated the independence of visually impaired individuals by developing a system that successfully teaches them to write English characters using audio feedback.
* Provided users with correctional feedback through **image processing** and **template matching.**
* Awarded funding of **$1,000** for further research.

**Associate Dashboard Developer|ART-022** May - Aug 2022

* Conducted a case study to determine the effects of different visuals on strategic decision making.
* **Debugged** an artillery dashboard organized through the U.S Department of Defense.

**Associate Data Analyst|MLB Pitching Analysis** May - Aug 2021

* Pinpointed the deceleration phase of pitchers during their pitching motion.
* Analyzed joint movements to decrease the likelihood of injuries and optimize fundamentals.

**EDUCATION**

**Bachelor of Engineering: Software Engineering,** *Stevens Institute of Technology***GPA: 3.723** May 2024

**Master of Science: Machine Learning,** *Stevens Institute of Technology* **GPA: 4.0** May 2025

**ACADEMIC PROJECTS**

**Front End Developer|EchoLab** Feb - May 2024

* Enabled collaboration between users in a web application programming environment.
* Engineered a built-in voice call functionality with **Agora** and synchronization with **Socket.io.**

**Web Developer|Student Course Review Website** Oct - Dec 2023

* Built a web application enabling users to **review** and **rate** courses from their university.

**Full Stack Developer|Irwin** Jan - May 2023

* Developed a **React** application aimed for institutions to analyze data and responses stored in **Mongo.**

**Lead Game Developer|Ducks in the Stress Lane** Feb - Mar 2023

* **Reverse engineered** and enhanced the game "Jones in the Fast Lane" to **simulate** the life of a Stevens student using **phaser.**

**Full Stack Developer|There’s Options** Feb **-** Apr 2022

* Empower beginning **traders** to make insightful decisions through **stock** market trend **visualizations**.

**Lead Software Engineer|Arduino Robot** Feb - May 2021

* Programmed an **Arduino**-based robot with **ultrasonic sensors** to navigate obstacles autonomously.

**LEADERSHIP + AWARDS**

**Pinnacle Scholar,** *Stevens Institute of Technology*  Aug 2020

**Brother,** *Phi Sigma Kappa - Iota Chapter* 2022 - Present

**Captain,** *Stevens Club Baseball, Travel Baseball* 2020 - Present